

BEST AVAILABLE COPY

Customer No.: 31561
Application No.: 10/691,617
Docket No.: 17956-US-PA

AMENDMENTS**To the Claims:**

Claim 1 (currently amended) A flat-panel display (FPD) encapsulation apparatus, at least comprising:

a chamber having an airtight space ~~to provide a low pressure environment~~, the chamber comprising:

a housing, which connects to the pressing mechanism, wherein the second substrate is provided in the housing and attached to one end of the pressing mechanism, and the second substrate is moved in the housing according to the pressing mechanism;

a curing device disposed next to the housing and having a supporting portion to support the first substrate, wherein the curing device and the housing form an operating space; and

a vacuum device, adapted for decreasing the pressure of the operating space down to lower than 1 atmosphere; and

a pressing mechanism disposed within the chamber, wherein the pressing mechanism is operated in the ~~low-pressure environment~~ operating space.

Claim 2 (canceled)

Claim 3 (canceled)

BEST AVAILABLE COPY

Customer No.: 31561
Application No.: 10/691,617
Docket No.: 17956-US-PA

Claim 4 (currently amended) The encapsulation apparatus of Claim [[2]] 1, wherein the chamber further comprises:

a controlling device, which controls the vacuum device to adjust the pressure of the operating space.

Claim 5 (currently amended) The encapsulation apparatus of Claim [[2]] 1, further comprising:

a dispensing mechanism, which forms an adhesive on the first substrate..

Claims 6-8 (canceled)

Claim 9 (original) The encapsulation apparatus of Claim 1, further comprising:
an atmosphere controlling mechanism, which controls moisture and oxygen in the airtight space.

Claim 10 (original) The encapsulation apparatus of Claim 9, wherein the atmosphere controlling mechanism inputs inert gas into the airtight space to control moisture and oxygen in the airtight space.

Claim 11. (withdrawn) A method for encapsulating a flat-panel display (FPD),

BEST AVAILABLE COPY

Customer No.: 31561
Application No.: 10/691,617
Docket No.: 17956-US-PA

comprising:

- providing a first substrate;
- forming an adhesive on a surface of the first substrate;
- providing a second substrate, wherein the second substrate is aligned with the first substrate and faces to the surface of the first substrate formed with the adhesive;
- providing a low-pressure environment to the second substrate and the first substrate with the adhesive; and
- pressing the first substrate and/or the second substrate to bind the first substrate and the second substrate under a low-pressure environment.

Claim 12. (withdrawn) The method of claim 11, wherein the first substrate and the second substrate are positioned in an airtight space.

Claim 13. (withdrawn) The method of claim 12, wherein moisture and oxygen in the airtight space are controlled by an atmosphere controlling mechanism.

Claim 14. (withdrawn) The method of claim 13, wherein the atmosphere controlling mechanism inputs inert gas into the airtight space to control moisture and oxygen in the airtight space.

BEST AVAILABLE COPY

Customer No.: 31561
Application No.: 10/691,617
Docket No.: 17956-US-PA

Claim 15. (withdrawn) The method of claim 11, further comprising:
crosslinking the adhesive after the first substrate and the second substrate are bound.

Claim 16. (withdrawn) The method of claim 15, wherein an UV light beam is used to
crosslink the adhesive.

Claim 17. (withdrawn) The method of claim 11, wherein the adhesive formed on the first
substrate is a closed loop or frame.

Claim 18. (withdrawn) The method of claim 11, wherein the adhesive formed on the first
substrate has a gap for air venting.

Claim 19. (withdrawn) The method of claim 11, wherein the first substrate is a cover
substrate, and the second substrate is an electroluminescent substrate.

Claim 20. (withdrawn) The method of claim 11, wherein the pressure of the low-pressure
environment is controlled by a controlling device.